

Air Monitoring Summary Tables

The tables below summarize preliminary air monitoring data collected using Handheld DustTrak, SPM Flex, and MultiRAE Pro instruments.

Project Name: Morris Industrial Fire ER
Date/Time: 07/19/21 20:56 to 07/20/21 06:17

Weather

Temperature: 68°F, low of 64°F
Wind Speed: 1 to 3 miles per hour
Wind Direction: East/Southeast
Conditions: Clear

Fixed Discrete Air Monitoring Location 010 - Downwind					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	5	0.000 to 0.000
	CO (ppm)	--	No	5	0.00 to 0.00
	O ₂ (%)	--	No	5	20.9 to 20.9
	LEL (%)	--	No	5	0.000 to 0.000
	VOC (ppm)	1 ppm	No	5	0.000 to 0.000
SPM Flex	HF	1 ppm	No	15	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	5	0.023 to 0.030
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	5	0.026 to 0.032

Fixed Discrete Air Monitoring Location 011 - Crosswind/Upwind					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	5	0.000 to 0.000
	CO (ppm)	--	No	5	0.00 to 0.00
	O ₂ (%)	--	No	5	20.9 to 20.9
	LEL (%)	--	No	5	0.000 to 0.000
	VOC (ppm)	1 ppm	No	5	0.000 to 0.000
SPM Flex	HF	1 ppm	No	15	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	5	0.018 to 0.038
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	5	0.018 to 0.040

Fixed Discrete Air Monitoring Location 012 - Upwind					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	5	0.000 to 0.000
	CO (ppm)	--	No	5	0.00 to 0.00
	O ₂ (%)	--	No	5	20.9 to 20.9
	LEL (%)	--	No	5	0.000 to 0.000
	VOC (ppm)	1 ppm	No	5	0.000 to 0.000
SPM Flex	HF	1 ppm	No	15	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	5	0.020 to 0.036
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	5	0.021 to 0.037

Notes: See last page.

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Fixed Discrete Air Monitoring Location 013 - Crosswind/Downwind					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	5	0.000 to 0.000
	CO (ppm)	--	No	5	0.00 to 0.00
	O ₂ (%)	--	No	5	20.9 to 20.9
	LEL (%)	--	No	5	0.000 to 0.000
	VOC (ppm)	1 ppm	No	5	0.000 to 0.000
SPM Flex	HF	1 ppm	No	15	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	5	0.021 to 0.032
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	5	0.022 to 0.032

Fixed Discrete Air Monitoring Location 014 - Upwind					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	5	0.000 to 0.000
	CO (ppm)	--	No	5	0.00 to 0.00
	O ₂ (%)	--	No	5	20.6 to 20.9
	LEL (%)	--	No	5	0.000 to 0.000
	VOC (ppm)	1 ppm	No	5	0.000 to 0.000
SPM Flex	HF	1 ppm	No	15	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	5	0.019 to 0.035
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	5	0.019 to 0.035

Fixed Discrete Air Monitoring Location 015 - Crosswind/Downwind					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	5	0.000 to 0.000
	CO (ppm)	--	No	5	0.00 to 0.00
	O ₂ (%)	--	No	5	20.6 to 20.9
	LEL (%)	--	No	5	0.000 to 0.000
	VOC (ppm)	1 ppm	No	5	0.000 to 0.000
SPM Flex	HF	1 ppm	No	15	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	5	0.011 to 0.035
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	5	0.011 to 0.038

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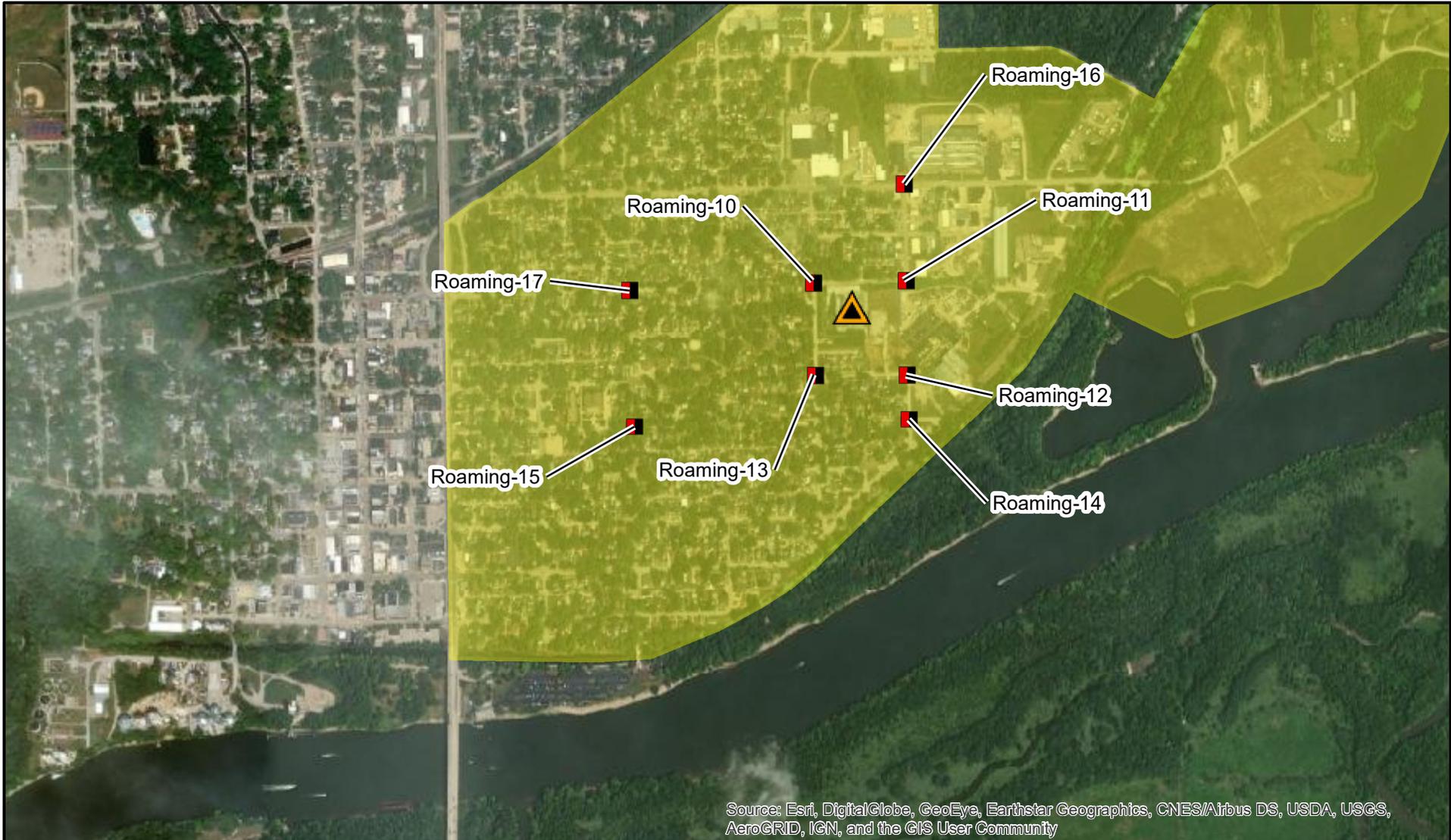
Fixed Discrete Air Monitoring Location 016 - Crosswind/Upwind					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	6	0.000 to 0.000
	CO (ppm)	--	No	6	0.00 to 0.00
	O ₂ (%)	--	No	6	20.9 to 20.9
	LEL (%)	--	No	6	0.000 to 0.000
	VOC (ppm)	1 ppm	No	6	0.000 to 0.000
SPM Flex	HF	1 ppm	No	18	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	6	0.021 to 0.034
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	6	0.024 to 0.036

Fixed Discrete Air Monitoring Location 017 - Downwind					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	5	0.000 to 0.000
	CO (ppm)	--	No	5	0.00 to 0.00
	O ₂ (%)	--	No	5	20.7 to 20.9
	LEL (%)	--	No	5	0.000 to 0.000
	VOC (ppm)	1 ppm	No	5	0.000 to 0.000
SPM Flex	HF	1 ppm	No	15	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	5	0.022 to 0.035
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	5	0.023 to 0.038

Comments
Start and stop times for each air monitoring instrument varies. The monitoring period is based on the earliest start time and latest stop time out of all units.
1 - Site-Specific Public Health Screening Levels are based on 1-hour time-weighted averages and were established by ATSDR. Fixed discrete monitoring readings are discrete readings, and so do not represent conditions over a full 1-hour period.
2 - PM _{2.5} exceedances of site-specific screening levels were observed at the fixed discrete air monitoring locations during the monitoring period. There was no active fire, smoke or site activities conducted at the facility during the monitoring period.

Notes:

CO - Carbon Monoxide
H₂S - Hydrogen Sulfide
LEL - Lower Explosive Limit
HF - Hydrogen Fluoride
mg/m³ - milligrams per cubic meter
O₂ - Oxygen
PM_{2.5} - particles that are 2.5 micrometers and smaller
PM₁₀ - particles that are 10 micrometers and smaller
ppb - Parts per billion
ppm - Parts per million
VOC - Volatile organic compounds



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



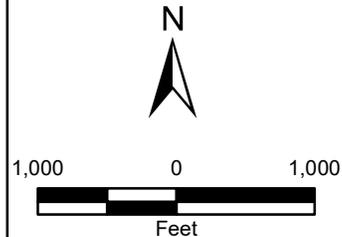
Site Location

Legend

-  Fire Location
-  Fixed Discrete Air Monitoring Locations
-  Former Approximate Evacuation Zone

Source: Esri 2020

Note: Air monitoring locations subject to change based on site conditions and response objectives



Morris Industrial Fire ER
Morris, Illinois

Figure 1 Air Monitoring Stations



Prepared For: USEPA

Prepared By: Tetra Tech Inc.